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(54) DETERMINATION OF INTRACELLULAR ATP

(57)Abstract:

PURPOSE: To quickly determine intracellular ATP for microbial examination, etc., in high sensitivity without diluting the specimen by contacting an extracted specimen of intracellular ATP with an agent for suppressing the inhibition of enzymatic reaction and containing cyclodextrin and applying a biochemical luminescent method to the contact product.

CONSTITUTION: ATP in a cell is determined in high sensitivity for food sanitation, clinical examination, environmental microbial examination, etc., by contacting a specimen containing cells of microorganisms, etc., with an adenosine triphosphate (ATP) extraction reagent containing a surfactant (e.g. dodecyltrimethylbenzyl ammonium chloride) to extract the intracellular ATP of the specimen, contacting the extracted specimen with an agent for suppressing the inhibition of enzymatic reaction and containing a cyclodextrin (α -cyclodextrin), adding a luminescent reagent containing luciferin as a fluorescent substrate and luciferase as a luminescent enzyme to the extracted specimen to apply biochemical luminescent method and measuring

the light emitted by the biochemical luminescence caused by the enzymatic reaction of luciferin, luciferase and ATP.

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